AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

(currently amended) An electrical circuitry inspection method comprising:
performing reference based inspection of electrical circuitry to be inspected,
including:

for each of a plurality of types of local characteristics, each type occurring at least once within <u>said</u> electrical circuitry to be inspected, identifying at least one portion of interest within the electrical circuitry whereat said local characteristic is expected to occur; and

inspecting an image of each of said at least one portion of interest, using a selected an inspection task employing information defining said portion of interest and additional inspection information relevant to said portion of interest, said inspection task being selected from among a plurality of different inspection tasks in response to the type of local characteristic expected to occur in the portion of interest.

- 2. (original) A method according to claim 1, wherein said plurality of types of local characteristics includes at least one of the following types: a bonding pad; a ball structure; a target; a chip area.
- 3. (original) A method according to claim 1, wherein said identifying of at least one portion of interest comprises identification of at least one spatial region within said electrical circuitry.
- 4. (original) A method according to claim 3, wherein said identification of at least one spatial region is at least partly based on a user input.

- 5. (original) A method according to claim 3, wherein said identification of at least one spatial region is at least partly based on a computer generated input.
- 6. (original) A method according to claim 4, wherein said identification of at least one spatial region is at least partly based on a computer generated input.
- 7. (original) A method according to claim 1, and also comprising computer-assigning an inspection task to at least one individual portion of interest in response to the type of local characteristic expected to occur in the individual portion of interest.
- 8. (original) A method according to claim 1, and also comprising outputting at least one indication of defects responsive to said inspecting step.
- 9. (currently amended) Electrical circuitry inspection apparatus comprising:
- a reference based inspector performing reference based inspection of electrical circuitry to be inspected, said reference based inspector including:

a portion of interest identifier operative, for each of a plurality of types of local characteristics, each type occurring at least once within <u>said</u> electrical circuitry to be inspected, to identify at least one portion of interest within the electrical circuitry whereat said local characteristic is expected to occur; and

an image inspector inspecting an image of each of said at least one portion of interest, using a selected an-inspection task employing information defining said portion of interest and additional inspection information relevant to said portion of interest, said inspection task being selected from among a plurality of different inspection tasks in response to the type of local characteristic expected to occur in the portion of interest.

- 10. (original) Apparatus according to claim 9, wherein said plurality of types of local characteristics includes at least one of the following types: a bonding pad; a ball structure; a target; a chip area.
- 11. (original) Apparatus according to claim 9, wherein said identifier identifies at least one spatial region within said electrical circuitry.

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- 12. (original) Apparatus according to claim 11, wherein said identifier identifies at least one spatial region at least partly based on a user input.
- 13. (original) Apparatus according to claim 11, wherein said identifier identifies at least one spatial region is at least partly based on a computer generated input.
- 14. (original) Apparatus according to claim 12, wherein said identifier identifies at least one spatial region at least partly based on a computer generated input.
- 15. (original) Apparatus according to claim 9, and also comprising a task assigner computer-assigning an inspection task to at least one individual portion of interest in response to the type of local characteristic expected to occur in the individual portion of interest.
- 16. (original) Apparatus according to claim 9, and also comprising a defect indicator outputting at least one indication of defects responsive to output generated by said image inspector.